



Carolina Biological Case Study

THE CLIENT

Carolina began as a vision of what science supplier could be, and 90 years later, we still embody that future-focused visionary perspective. From technical science expertise to business and leadership acumen, they are fortunate to have a broad range of strengths. Many of their employees also have a background in education, which they draw upon to create effective products and learning tools that get results.



THE CHALLENGE

Carolina Biological struggled to sustain an archaic infrastructure running on Microsoft. They needed the scalability with a more robust cloud solution to handle their extensive online ecommerce database running on Oracle.

Over time, Carolina Biological's legacy infrastructure could not endorse its extensive ecommerce database.

Not only did Carolina Biological need to find the most optimal solution for their Oracle database, but they needed to be able to completely move their entire ecommerce website and database onto a new scalable cloud solution without any disruption to their users.

Carolina Biological needed help monetizing their Oracle database. They also needed to facilitate their ecommerce website and database onto a scalable cloud solution, so not to disrupt their users.

Carolina teamed up with eCloud to move and optimize their existing ecommerce experience.



THE SOLUTION

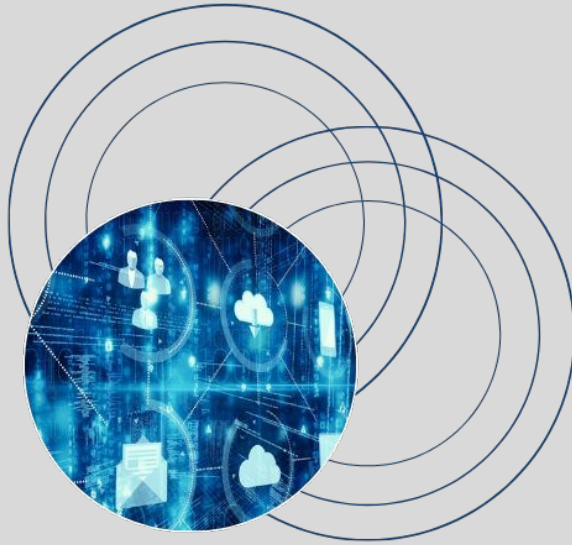
Carolina Biological (carolina.com) - They are a traditional MSFT shop and are running some workloads in Azure. However, when it came to their website that has an Oracle database for eCommerce, they choose eCloud and AWS. They are currently running this on AWS and contacted us to get a price comparison. After an in-depth technical review, pricing, and compatibility with Oracle on RDS, they choose eCloud and AWS.

eCloud Managed Solutions took a dual-phase approach. During phase one eCloud moved their retail e-commerce business and all SKUs in their Oracle Database. Their mission-critical application was migrated without disruption.

During phase two eCloud shifted its focus to optimization. Carolina Biological had their data in giant boxes rather than microservices running and not utilizing WAF. Auto Scaling created higher availability and accessibility. By utilizing Cloud Distro using Cloudfront (Content Delivery Network) offering incremental improvement in architecture helps decrease latency issues.

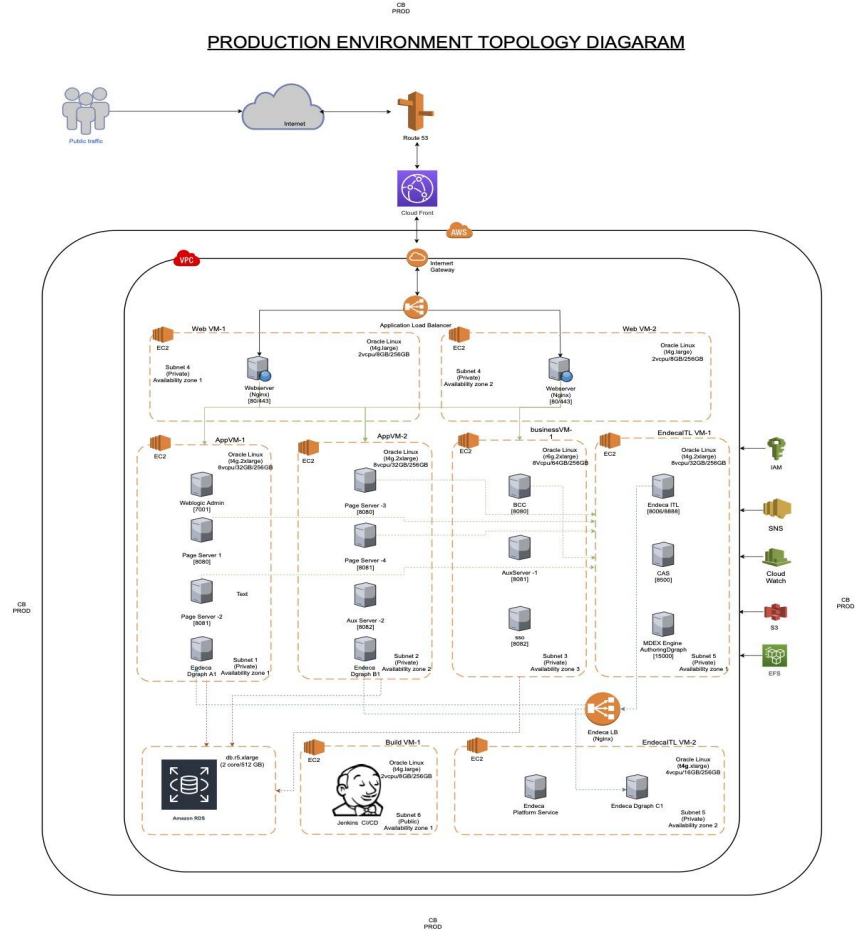
Deployment included AWS Configuration, Security Hub and GuardDuty, and configuration of the account to pass all security checks.

Carolina now has a PROD, UAT and DEV region with a CI/CD pipeline and industry leading tools and uptime.



SOLUTION DIAGRAM

PRODUCTION ENVIRONMENT TOPOLOGY DIAGRAM



THE BENEFITS

Carolina Biological now has a better eCommerce platform to support their continued growth, cloud first approach and scalability needed. With eCloud's guidance we were able to leverage industry best practices for security, CI/CD pipeline, improve the DEV and UAT experience for internal stakeholders, and provide ongoing managed services. Carolina Biological has seen an improved uptime of 35% YTD.

35%

Scalable Growth

By implementing managed services and quarterly business reviews, we were able to determine if current provisions and changing business needs were needed to be replaced by net new or additional AWS services. Regular cloud environment analysis proved to be successful and helped prepare Carolina Biological for optimal cost efficiency while continuing to future proof their AWS investment.



About eCloud

eCloud Managed Solutions, based in Atlanta GA, helps organizations increase security and efficiency by offering guaranteed performance and business agility while mitigating risk with cost-effective hybrid solutions. Founded in 2016, eCloud is a woman-owned business that guides organizations in evaluating, migrating and operating to better support business requirements. eCloud has helped companies remain secure, compliant, and highly available to their customers that rely on them. For more information, visit www.ecloudms.com

980 Birmingham Road,
Milton, GA 30004
877-420-7726
sales@ecloudms.com